"DE080"69706860

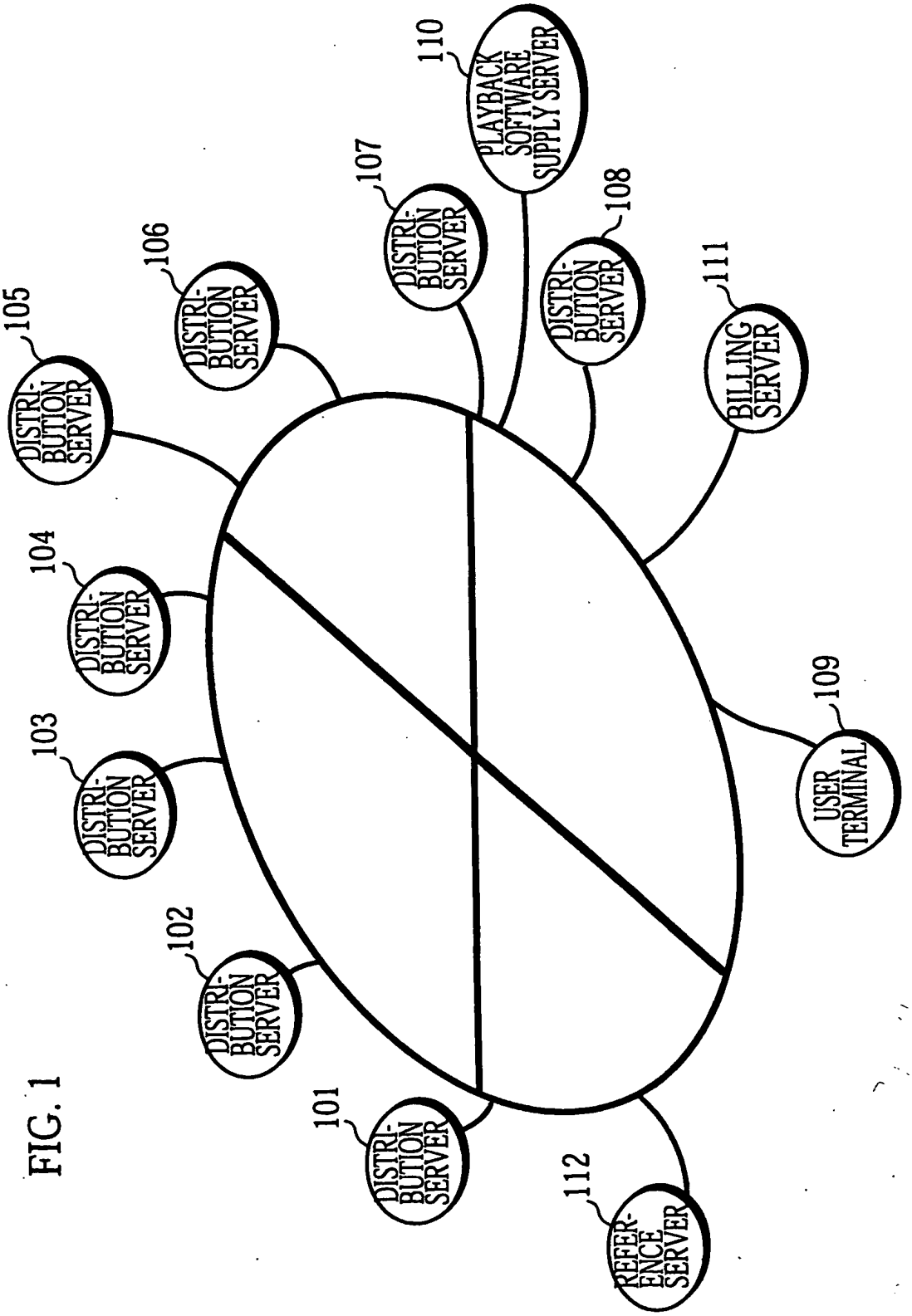

FIG. 1

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PCT/US00/32756

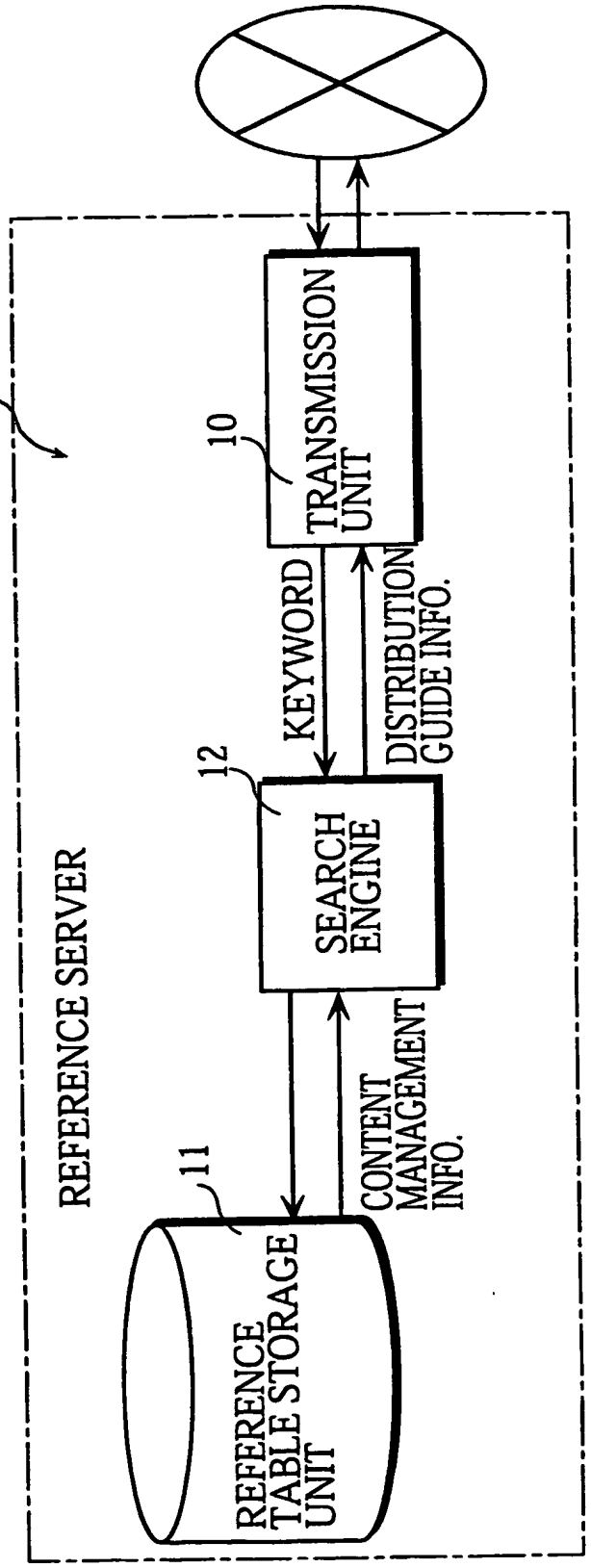


FIG. 2

"10080"69/06860

FIG. 3A

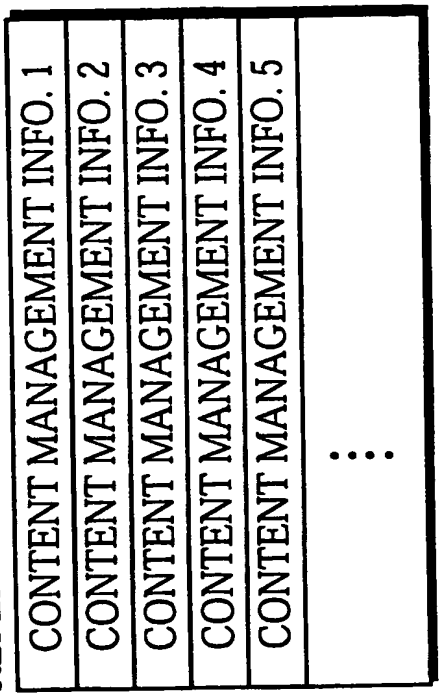


FIG. 3B

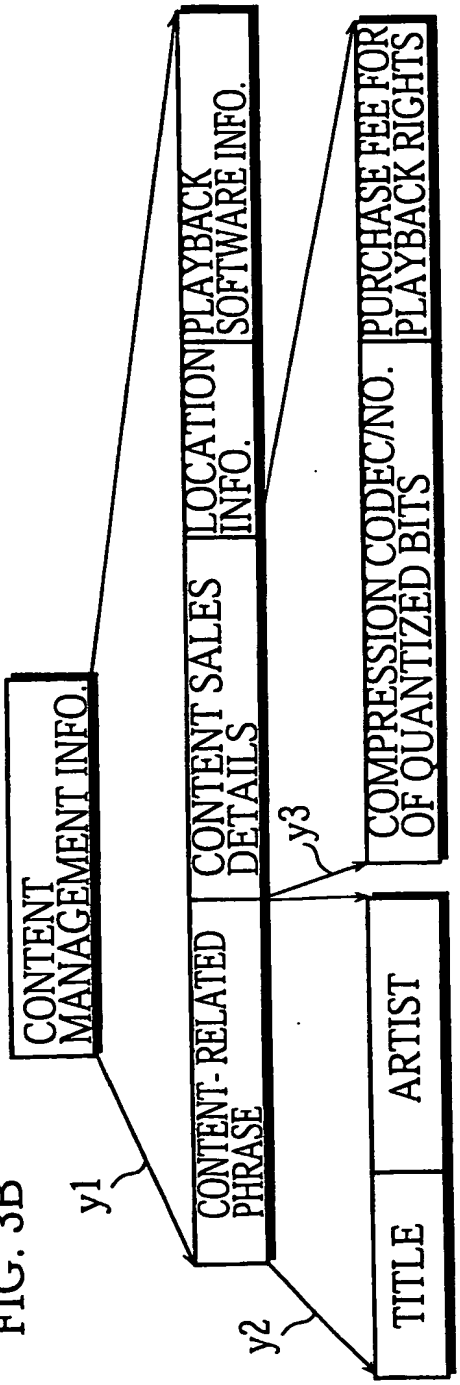


FIG. 4

EXAMPLE OF REFERENCE TABLE

TITLE	ARTIST	COMPRESSION CODEC/NO. OF QUANTIZED BITS	PURCHASE FEE FOR PLAYBACK RIGHTS	SERVER LOCATION INFO.	PLAYBACK SOFTWARE INFO.
Poor Minor	Mr.Artist1	AAC • 128kbps	$3.00	URL OF SERVER 101	PLAYBACK SOFTWARE A
Yet Breaker	Ms.Artist2	AAC • 96kbps	$1.50	URL OF SERVER 102	PLAYBACK SOFTWARE B
Star on BusStop	Mrs.Artist3	Mp3 • 128kbps	$1.50	URL OF SERVER 103	PLAYBACK SOFTWARE C
Forgotten Hero	Sir.Artist4	AAC • 128kbps	$3.00	URL OF SERVER 104	PLAYBACK SOFTWARE A
Local SuperStar	Artist5 Jr.	AAC • 96kbps	$1.50	URL OF SERVER 105	PLAYBACK SOFTWARE C
Nightmare Come True	Mr.Artist6	AAC • 128kbps	$3.00	URL OF SERVER 106	PLAYBACK SOFTWARE A
Field of BlackHall	Sir.Artist7	Mp3 • 128kbps	$1.00	URL OF SERVER 107	PLAYBACK SOFTWARE B

FIG. 5

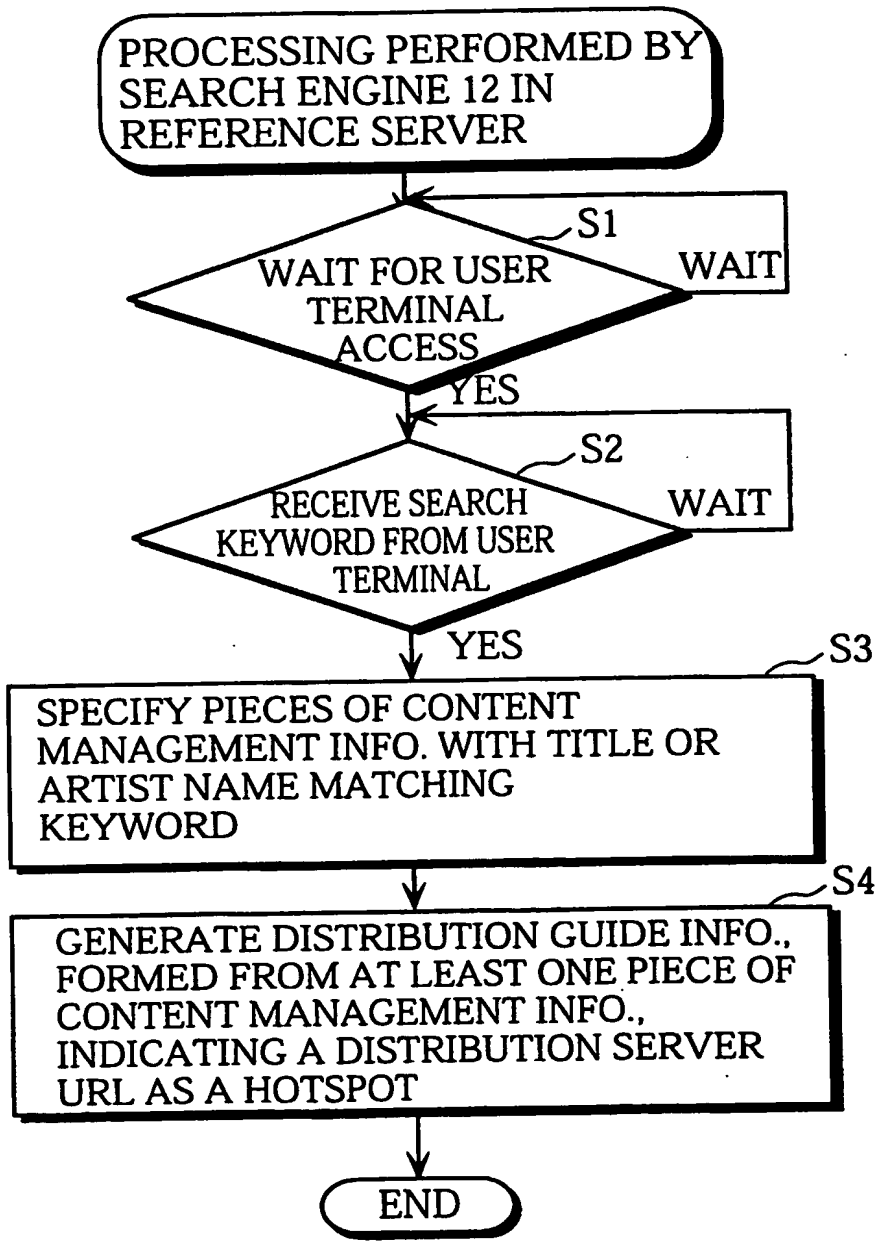

PROCESSING PERFORMED BY SEARCH ENGINE 12 IN REFERENCE SERVER
S1
WAIT FOR USER TERMINAL ACCESS
WAIT
YES
S2
RECEIVE SEARCH KEYWORD FROM USER TERMINAL
WAIT
YES
S3
SPECIFY PIECES OF CONTENT MANAGEMENT INFO. WITH TITLE OR ARTIST NAME MATCHING KEYWORD
S4
GENERATE DISTRIBUTION GUIDE INFO., FORMED FROM AT LEAST ONE PIECE OF CONTENT MANAGEMENT INFO., INDICATING A DISTRIBUTION SERVER URL AS A HOTSPOT
END

FIG. 6A

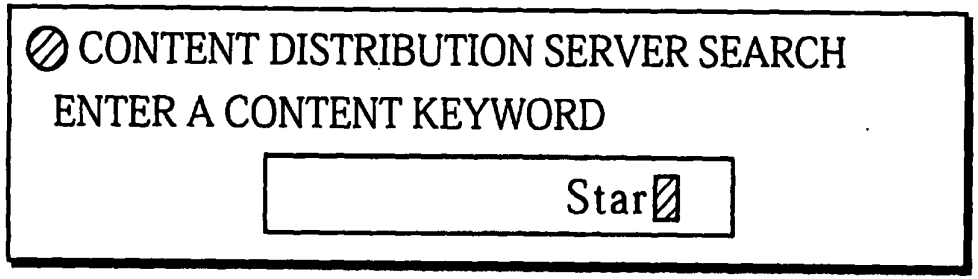


FIG. 6B

DISTRIBUTION GUIDE INFO.

Star on BusStop	Mrs.Artist3	Mp3 • 128kbps	$ 1.50	URL OF SERVER 103	PLAYBACK SOFTWARE C
Local SuperStar	Artist5 Jr.	AAC • 96kbps	$ 1.50	URL OF SERVER 105	PLAYBACK SOFTWARE C

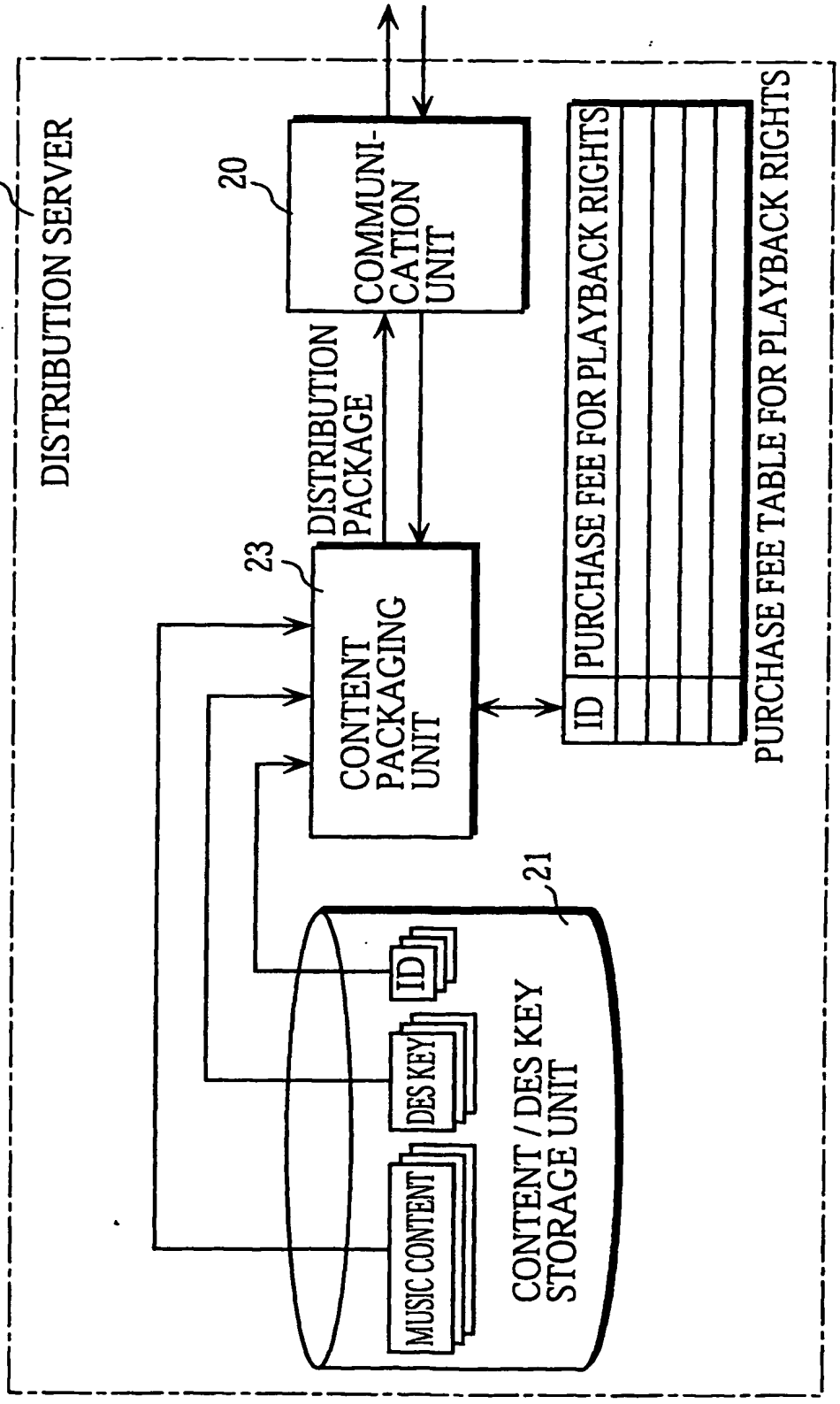
FIG. 6C

RESULTS OF CONTENT DISTRIBUTION SERVER SEARCH

SEARCH RESULTS ARE AS FOLLOWS.

TITLE	ARTIST	COMPRESSION CODEC/NO. OF QUANTIZED BITS	PURCHASE FEE FOR PLAYBACK RIGHTS	SERVER LOCATION INFO.	PLAYBACK SOFTWARE INFO.
Star on BusStop	Artist3	Mp3 • 128kbps	$ 1.50	URL OF SERVER 103	PLAYBACK SOFTWARE C
Local SuperStar	Artist5	AAC • 96kbps	$ 1.50	URL OF SERVER 105	PLAYBACK SOFTWARE C

FIG. 7


101~108
DISTRIBUTION SERVER
20
COMMUNI-CATION UNIT
DISTRIBUTION PACKAGE
23
CONTENT PACKAGING UNIT
ID
PURCHASE FEE FOR PLAYBACK RIGHTS
PURCHASE FEE TABLE FOR PLAYBACK RIGHTS
21
ID
DES KEY
MUSIC CONTENT
CONTENT / DES KEY STORAGE UNIT

TOE080 "69706860

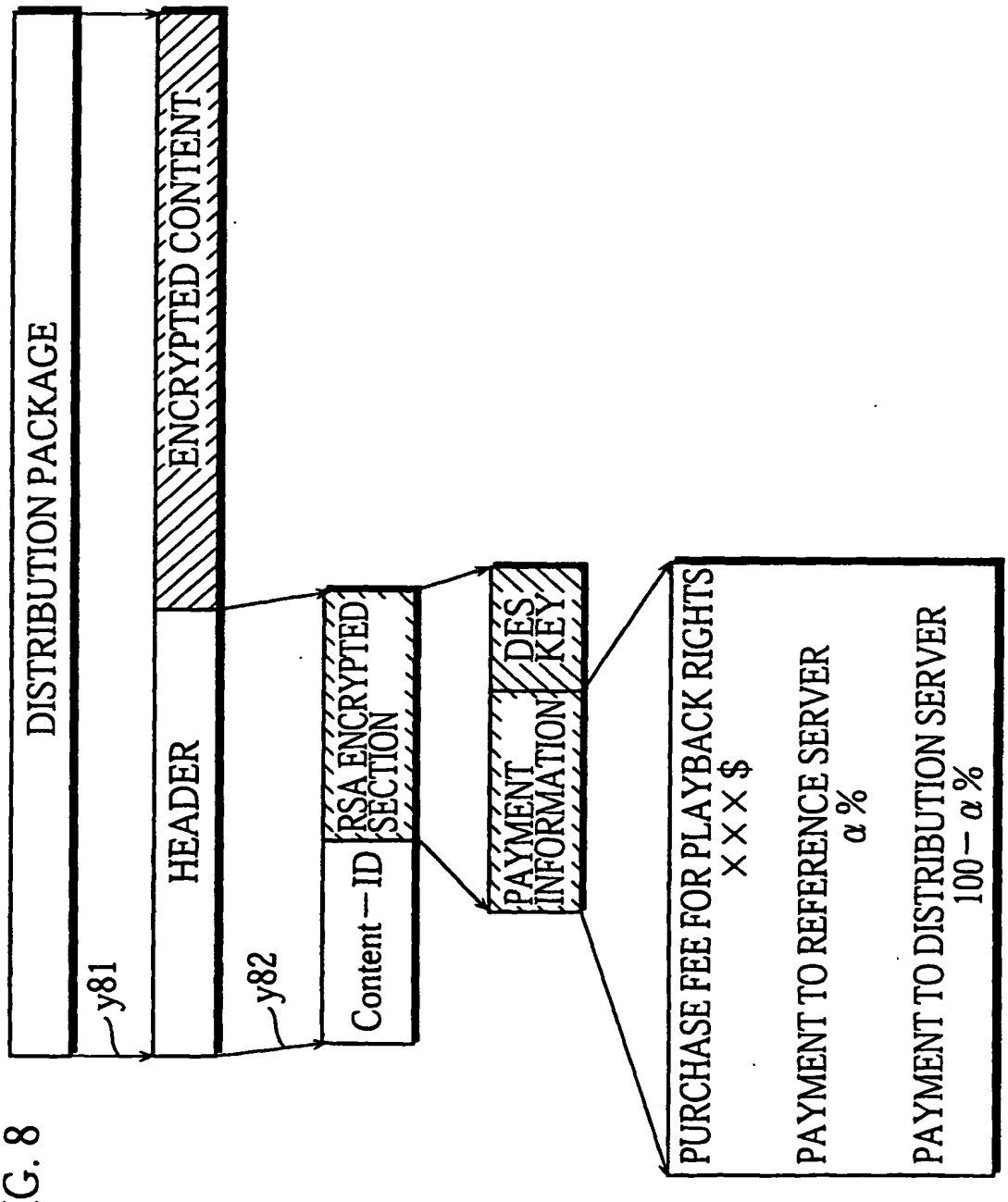
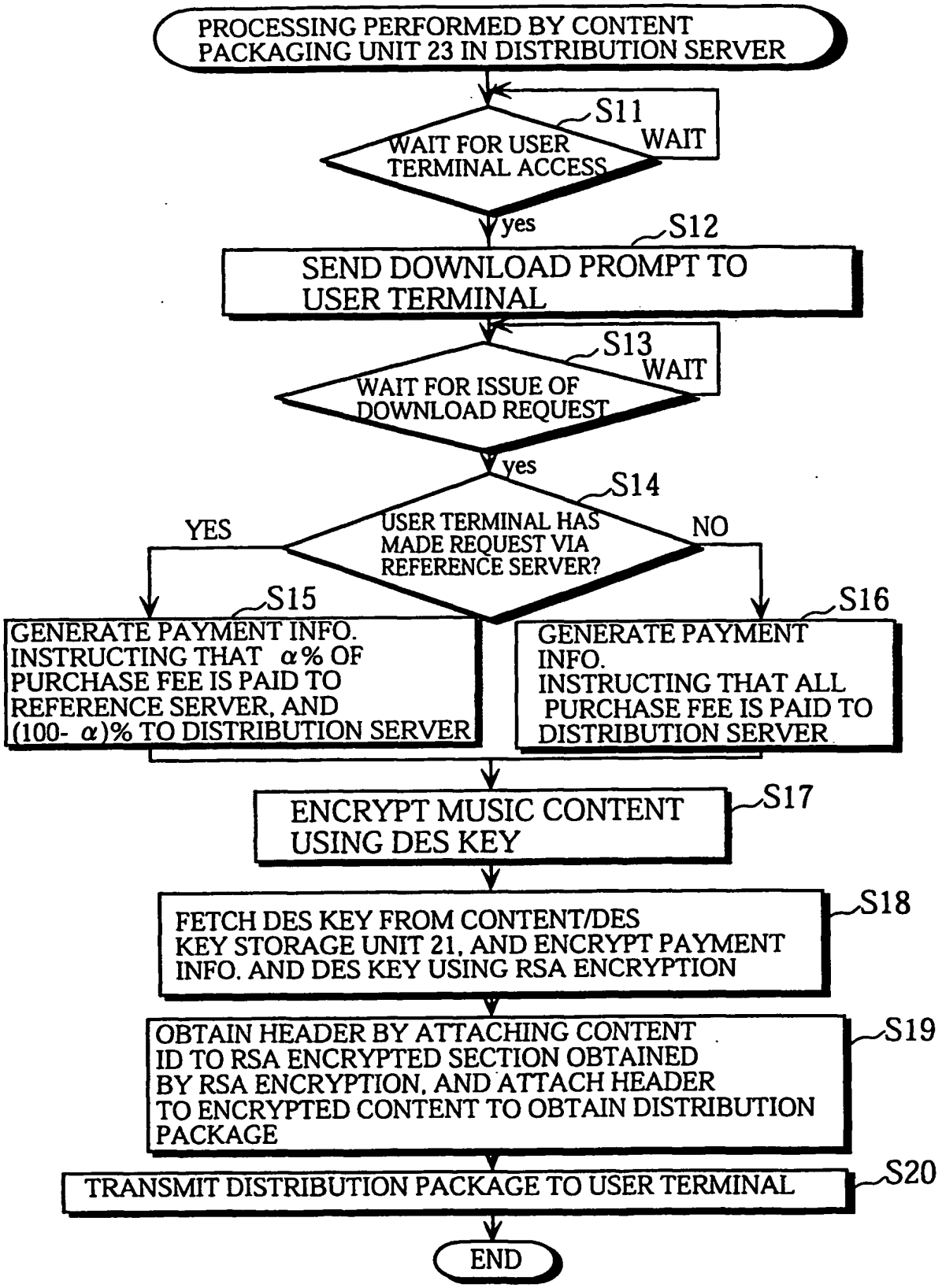


FIG. 8

FIG. 9



T:08080:69706860

T05080 "69206860

FIG. 10

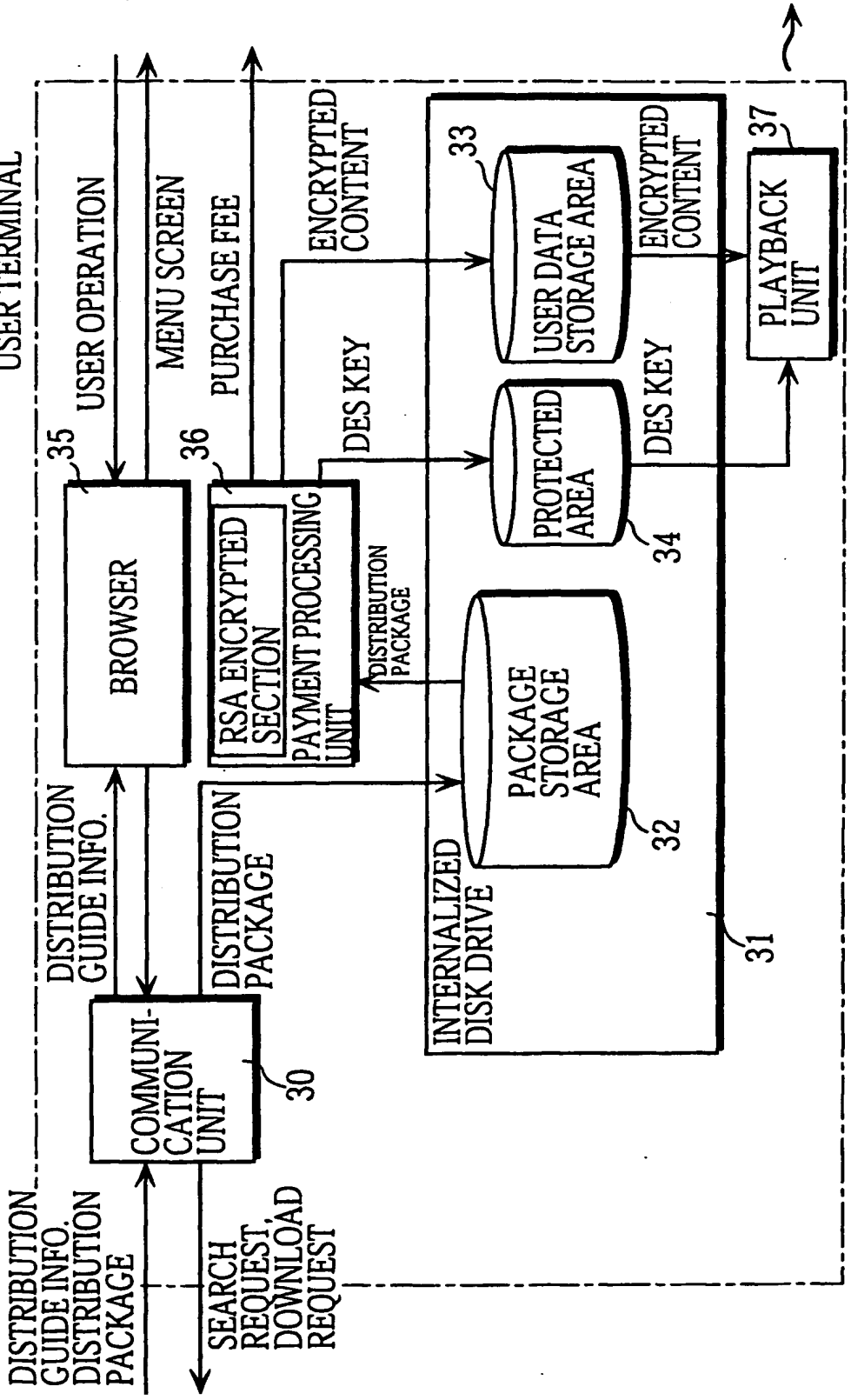


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FIG. 11

INDEX NO.	CONTENT ID	PACKAGE STORAGE LOCATION INFO.
1	USMEI9900001	C:/package/Song1
2	USMEI9903402	C:/package/Song2
3	JPMEI9900001	C:/package/Song3
4	JPMEI9800001	C:/package/Song4
5	USMEI9912345	C:/package/Song5
6	USMEI9900001	C:/package/Song6
7	UKMEI971344	C:/package/Song7

PACKAGE MANAGEMENT TABLE

FIG. 12

INDEX NO.	CONTENT STORAGE LOCATION INFO.	PURCHASE STATUS INFO.	KEY STORAGE LOCATION INFO.
1	C:/AudioData/Song1	PURCHASED	C:/Key/Song1
2	C:/AudioData/Song2	PURCHASED	C:/Key/Song2
3	————	UNPURCHASED	————
4	C:/AudioData/Song4	PURCHASED	C:/Key/Song4
5	————	UNPURCHASED	————
6	C:/AudioData/Song6	PURCHASED	C:/Key/Song6
7	C:/AudioData/Song7	PURCHASED	C:/Key/Song7

PURCHASE INFO. MANAGEMENT TABLE

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PCT/US00/32756

FIG. 13

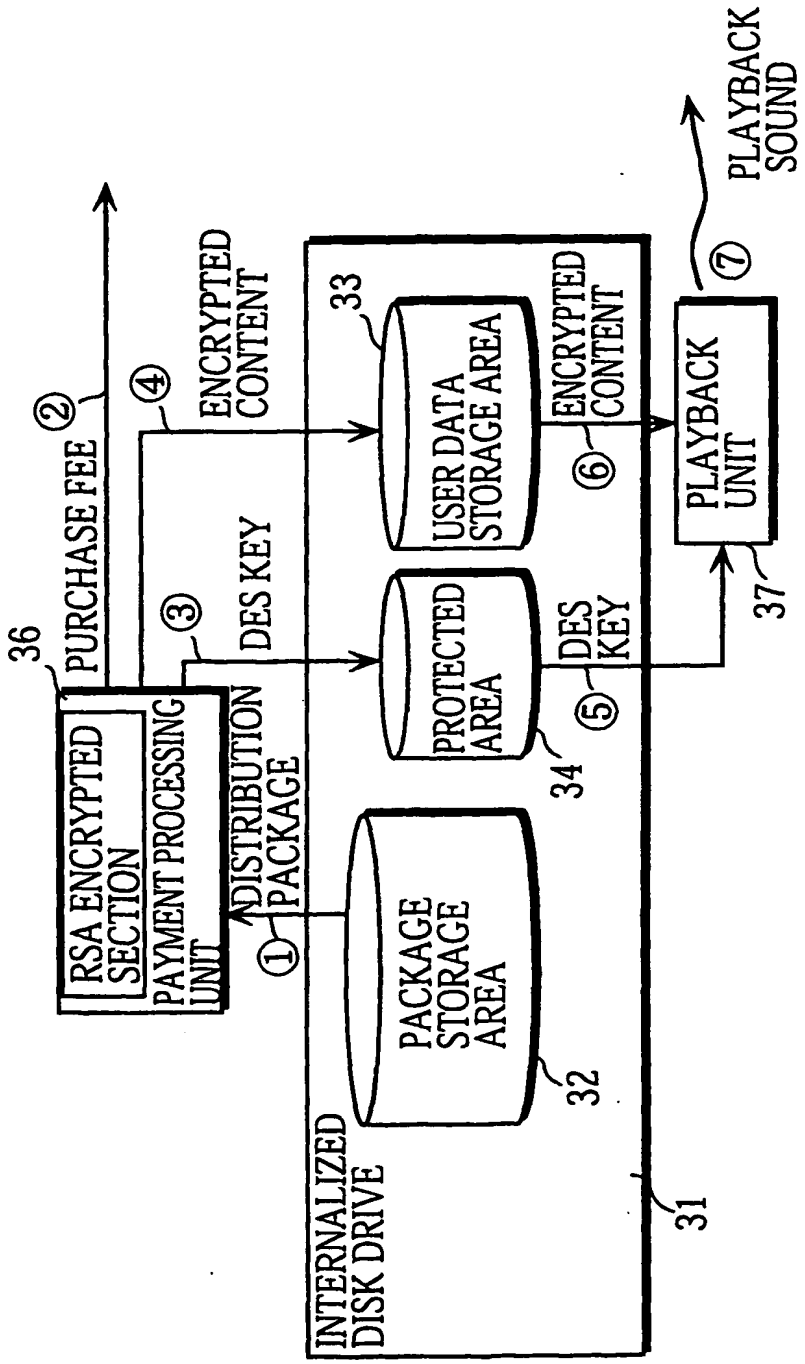
INTERNALIZED DISK DRIVE
31
PACKAGE STORAGE AREA
32
PROTECTED AREA
34
USER DATA STORAGE AREA
33
PLAYBACK UNIT
37
RSA ENCRYPTED SECTION
PAYMENT PROCESSING UNIT
36
① DISTRIBUTION PACKAGE
② PURCHASE FEE
③ DES KEY
④ ENCRYPTED CONTENT
⑤ DES KEY
⑥ ENCRYPTED CONTENT
⑦ PLAYBACK SOUND

FIG. 14

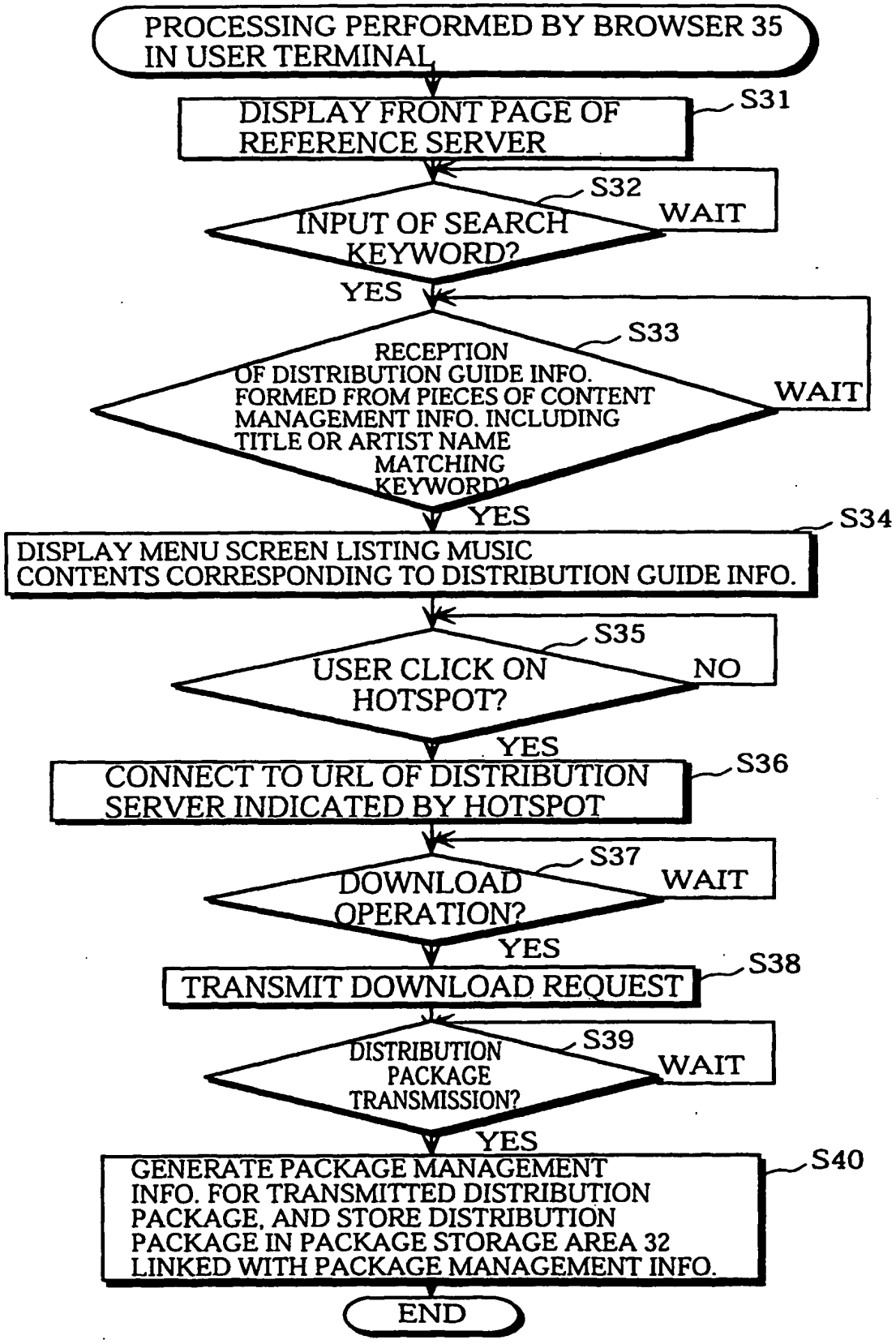
PROCESSING PERFORMED BY BROWSER 35 IN USER TERMINAL
DISPLAY FRONT PAGE OF REFERENCE SERVER
S31
INPUT OF SEARCH KEYWORD?
S32
WAIT
YES
RECEPTION OF DISTRIBUTION GUIDE INFO. FORMED FROM PIECES OF CONTENT MANAGEMENT INFO. INCLUDING TITLE OR ARTIST NAME MATCHING KEYWORD?
S33
WAIT
YES
DISPLAY MENU SCREEN LISTING MUSIC CONTENTS CORRESPONDING TO DISTRIBUTION GUIDE INFO.
S34
USER CLICK ON HOTSPOT?
S35
NO
YES
CONNECT TO URL OF DISTRIBUTION SERVER INDICATED BY HOTSPOT
S36
DOWNLOAD OPERATION?
S37
WAIT
YES
TRANSMIT DOWNLOAD REQUEST
S38
DISTRIBUTION PACKAGE TRANSMISSION?
S39
WAIT
YES
GENERATE PACKAGE MANAGEMENT INFO. FOR TRANSMITTED DISTRIBUTION PACKAGE, AND STORE DISTRIBUTION PACKAGE IN PACKAGE STORAGE AREA 32 LINKED WITH PACKAGE MANAGEMENT INFO.
S40
END

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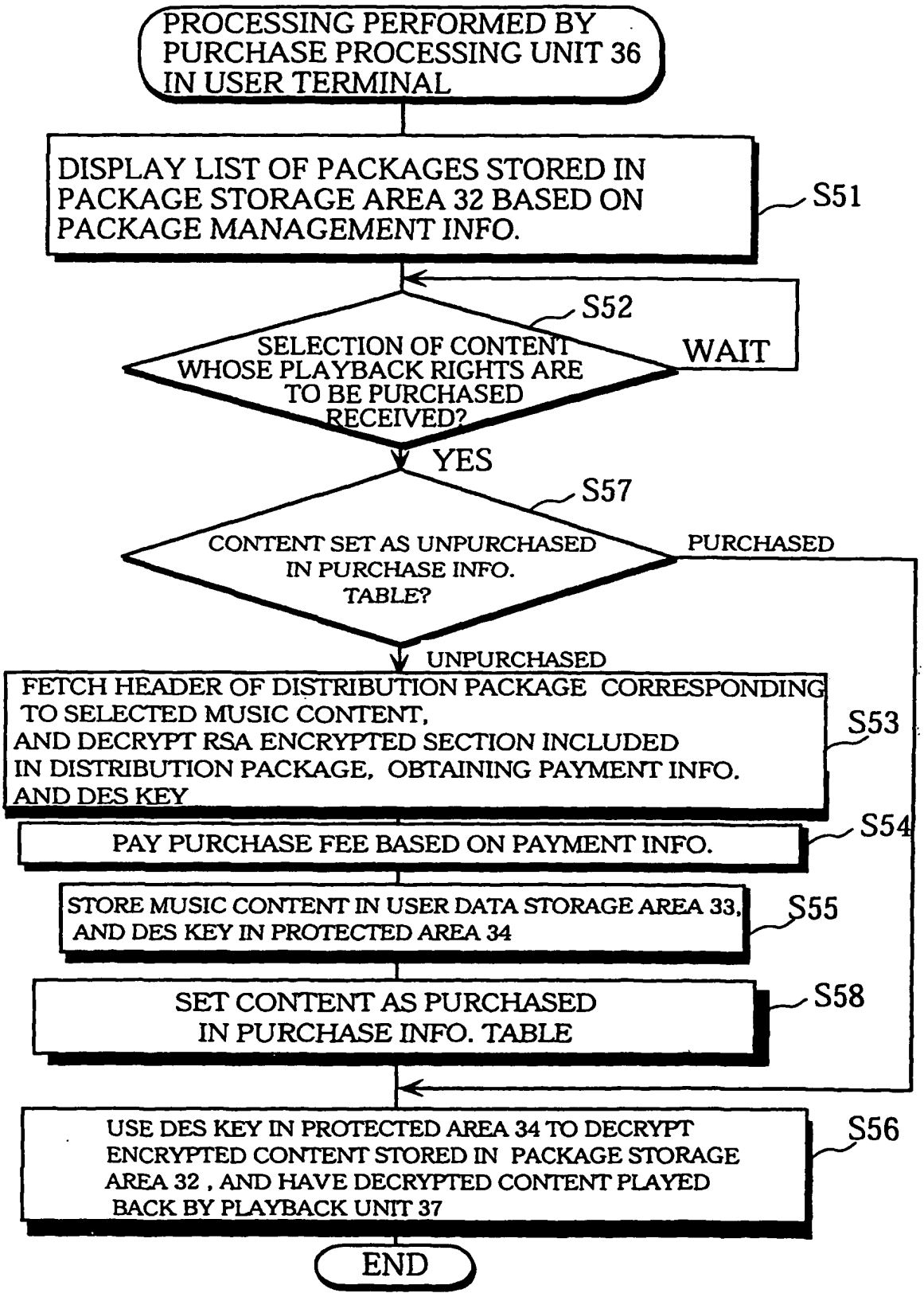
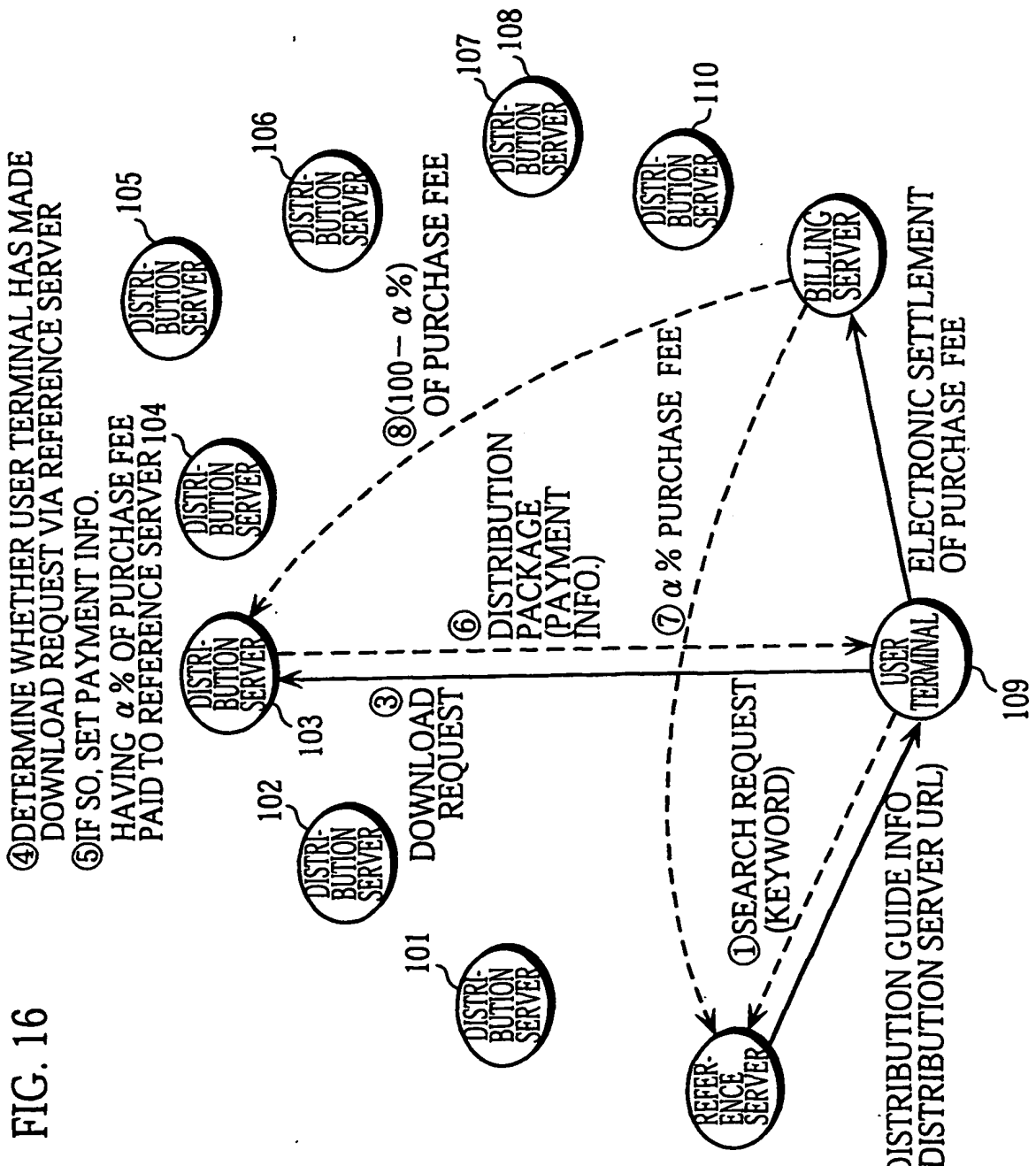
FIG. 15



FOOTER-69706950

FOEDB" 69/06860

FIG. 16



09/890769

PCT/US00/32756

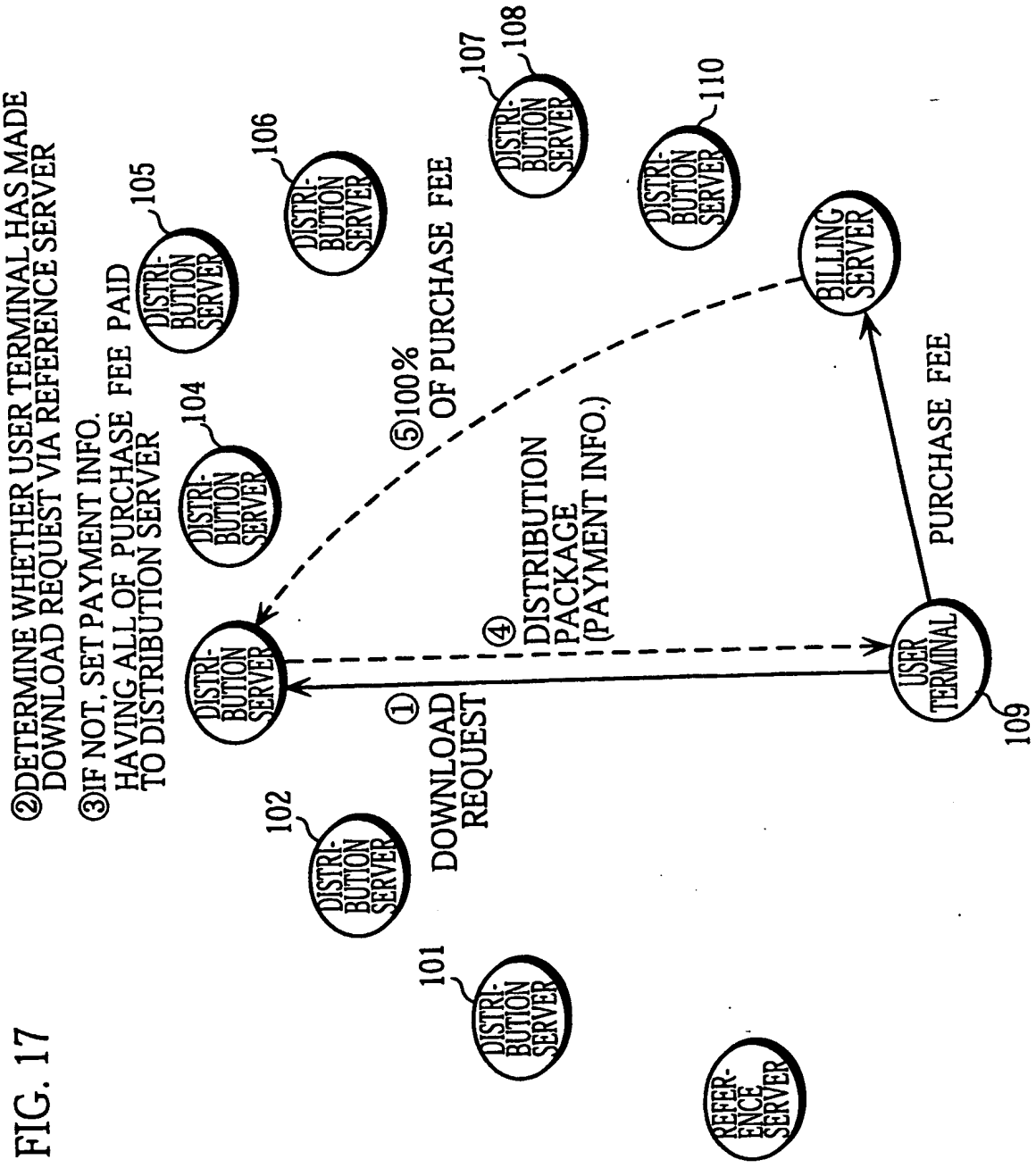
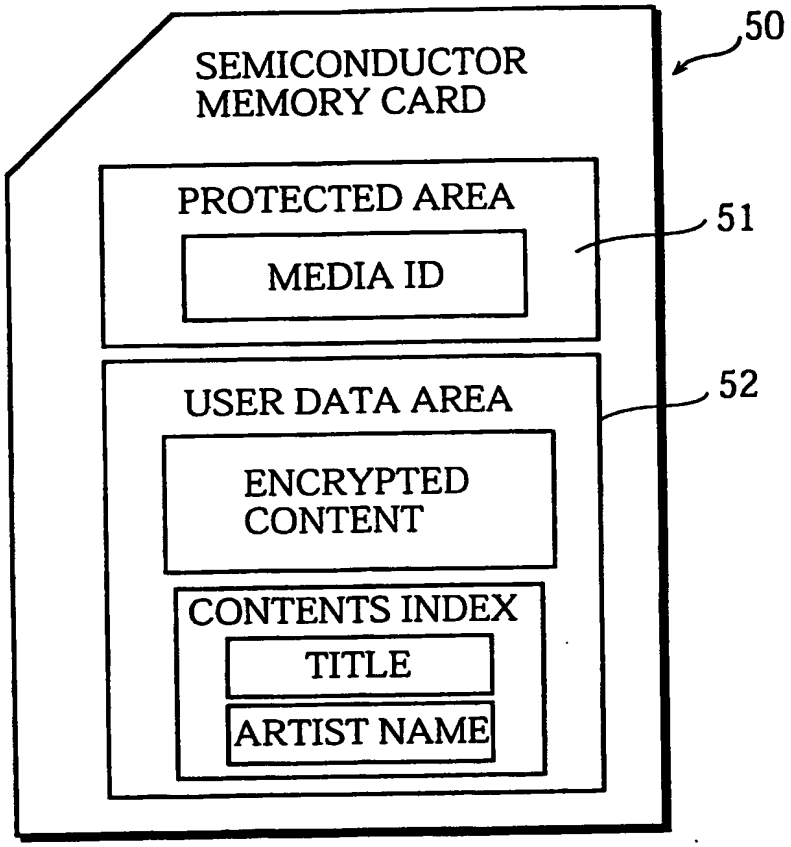


FIG. 17

FIG. 18


SEMICONDUCTOR MEMORY CARD
50
PROTECTED AREA
MEDIA ID
51
USER DATA AREA
52
ENCRYPTED CONTENT
CONTENTS INDEX
TITLE
ARTIST NAME

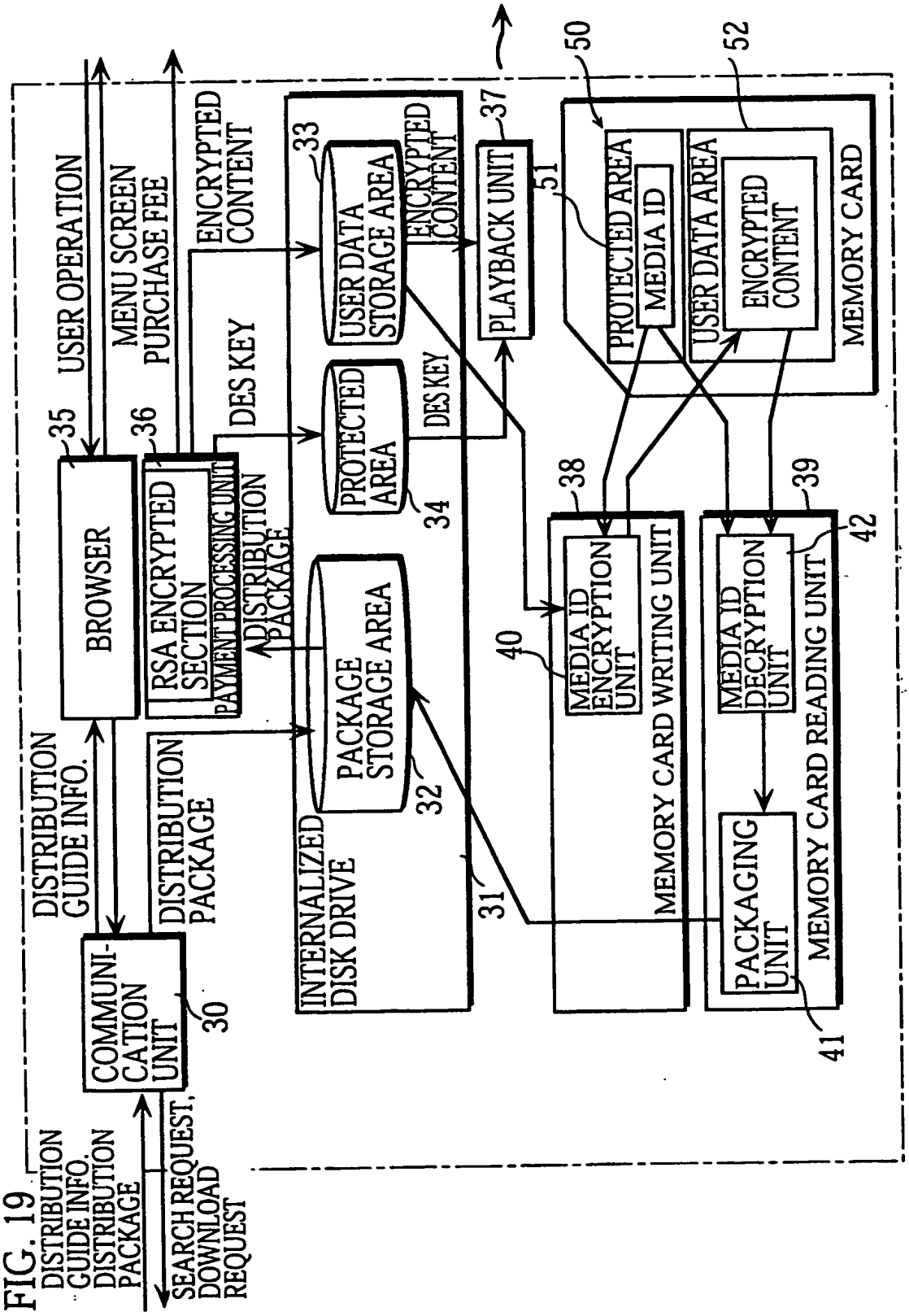

DISTRIBUTION GUIDE INFO.
DISTRIBUTION PACKAGE
SEARCH REQUEST, DOWNLOAD REQUEST
COMMUNI-CATION UNIT
30
BROWSER
35
USER OPERATION
MENU SCREEN PURCHASE FEE
36
RSA ENCRYPTED SECTION
PAYMENT PROCESSING UNIT
DISTRIBUTION PACKAGE
ENCRYPTED CONTENT
DES KEY
INTERNALIZED DISK DRIVE
PACKAGE STORAGE AREA
32
PROTECTED AREA
34
DES KEY
USER DATA STORAGE AREA
33
ENCRYPTED CONTENT
31
PLAYBACK UNIT
37
MEDIA ID ENCRYPTION UNIT
40
38
MEMORY CARD WRITING UNIT
50
PROTECTED AREA
MEDIA ID
51
MEDIA ID DECRYPTION UNIT
39
PACKAGING UNIT
41
MEMORY CARD READING UNIT
42
USER DATA AREA
ENCRYPTED CONTENT
MEMORY CARD
52

FIG. 19

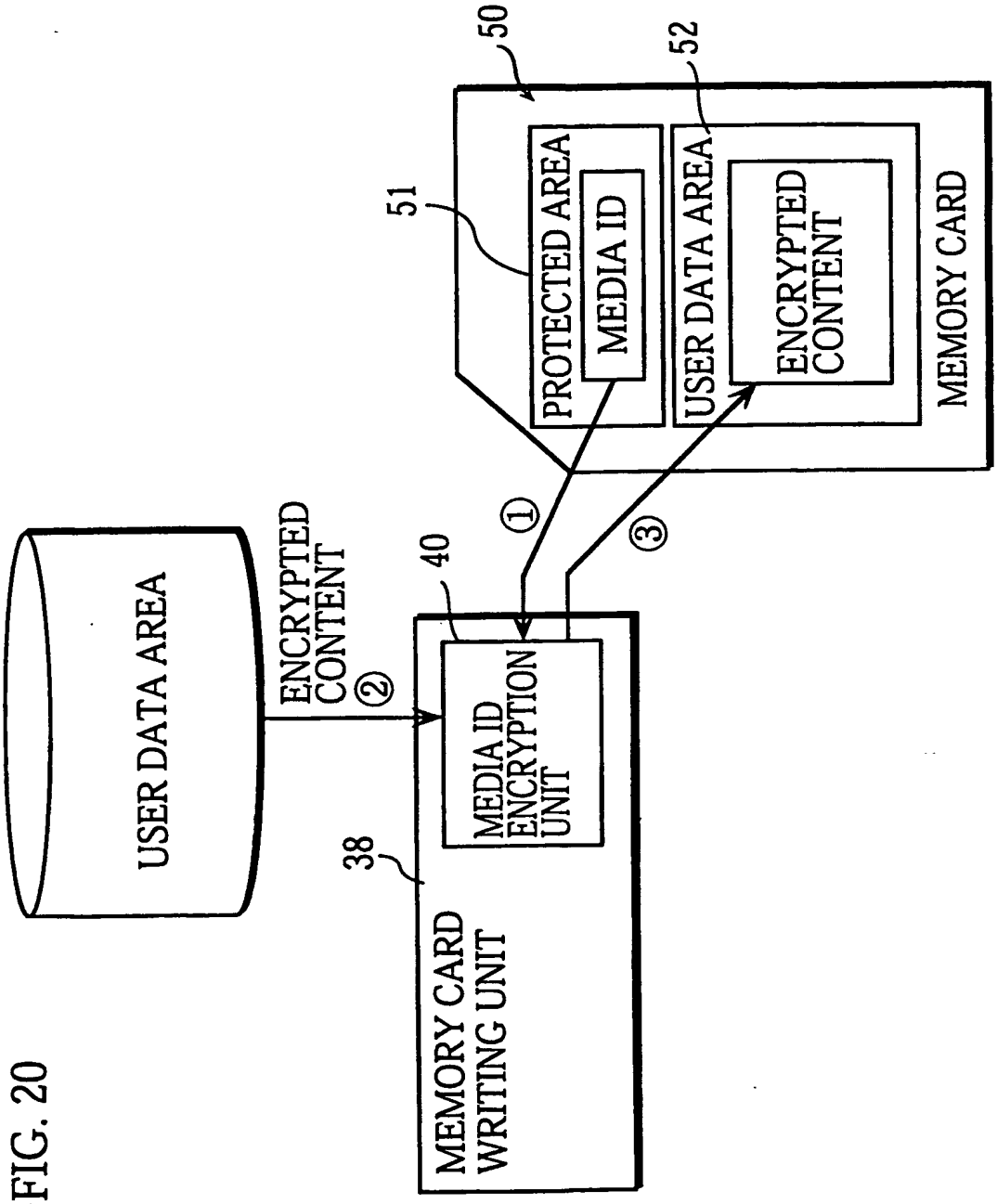

50
52
51
PROTECTED AREA
MEDIA ID
USER DATA AREA
ENCRYPTED CONTENT
MEMORY CARD
①
③
40
ENCRYPTED CONTENT
②
USER DATA AREA
MEDIA ID ENCRYPTION UNIT
38
MEMORY CARD WRITING UNIT

FIG. 20

FIG. 21

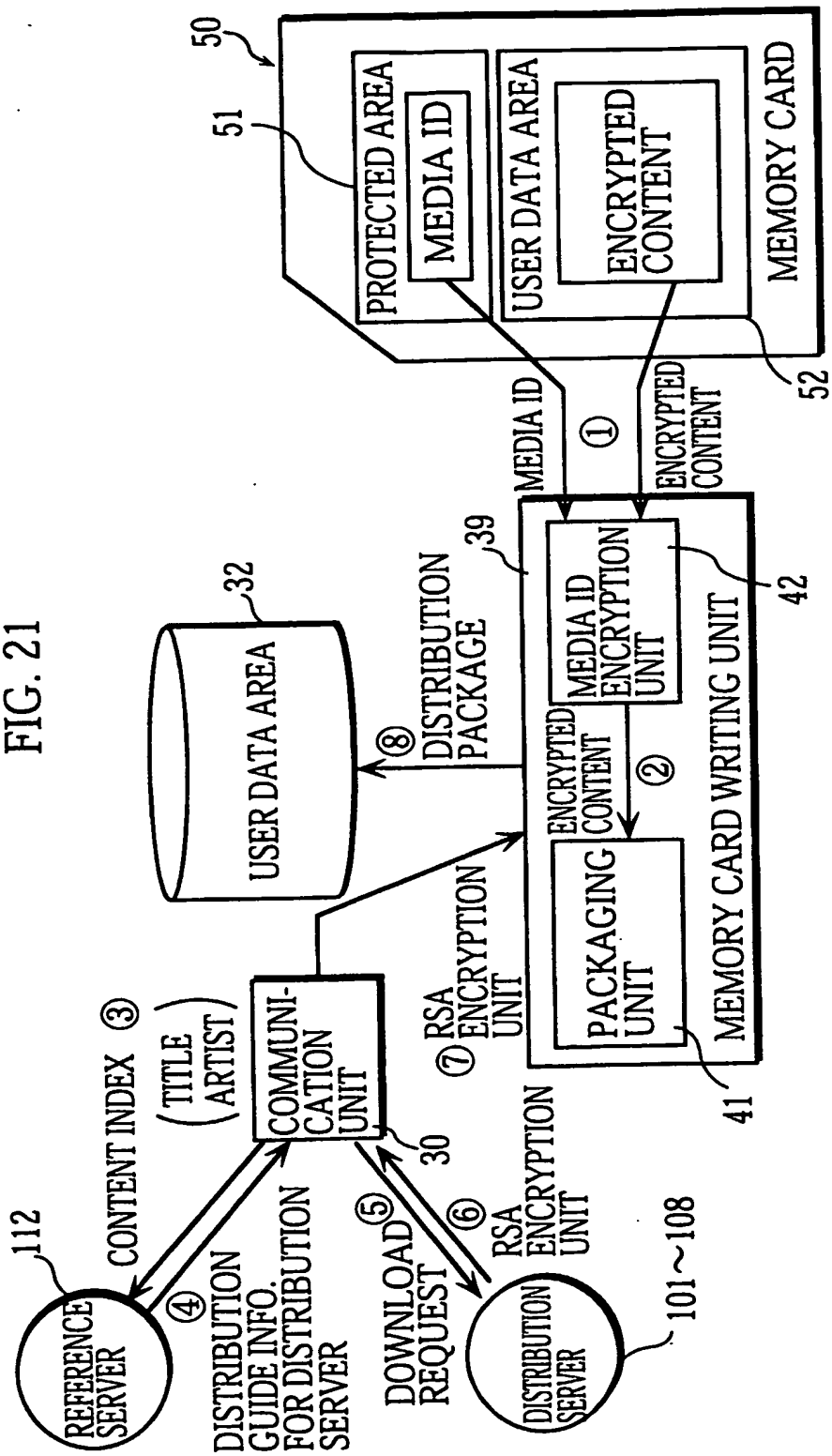
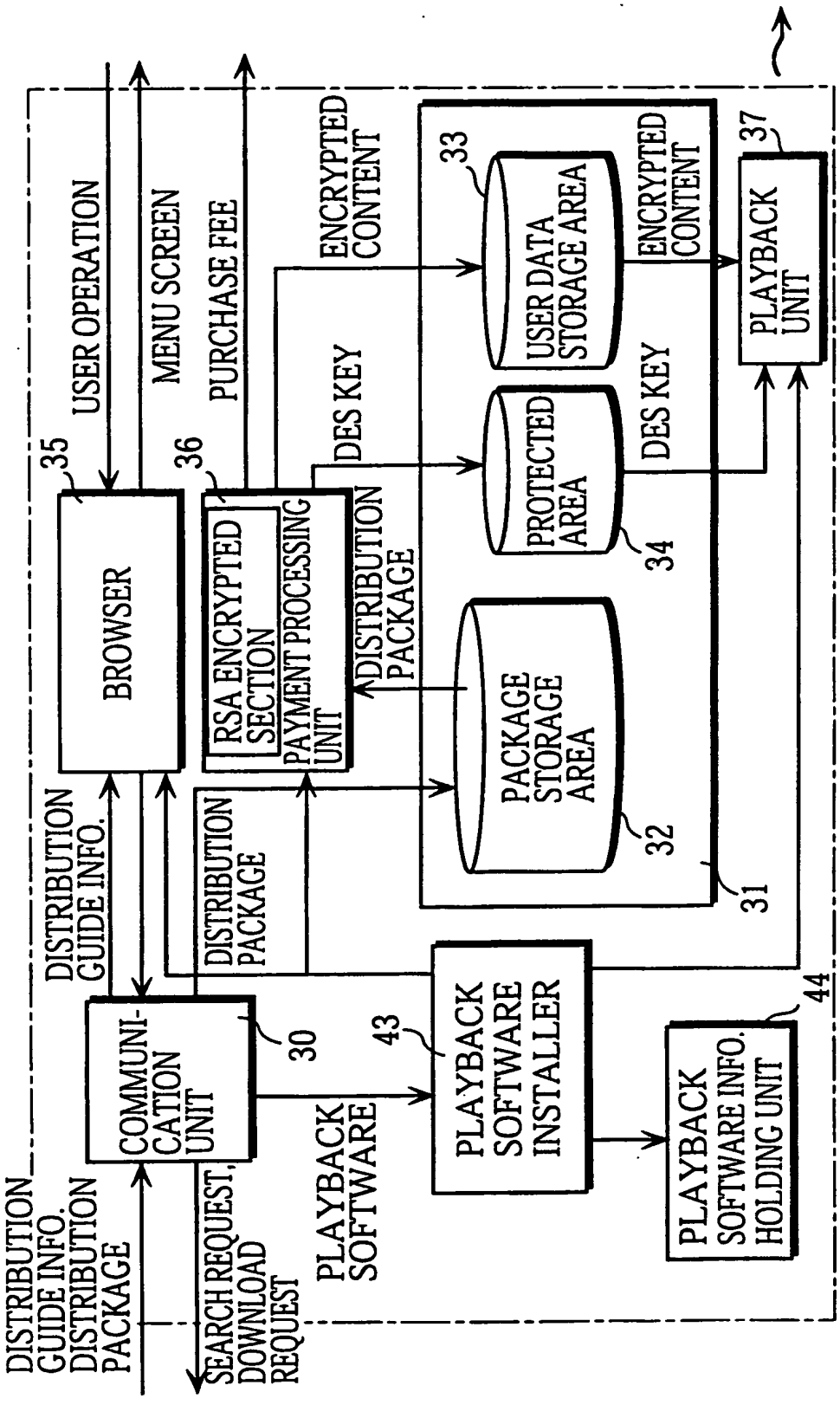

50
51
PROTECTED AREA
MEDIA ID
USER DATA AREA
ENCRYPTED CONTENT
MEMORY CARD
52
MEDIA ID
①
ENCRYPTED CONTENT
39
MEDIA ID ENCRYPTION UNIT
42
32
USER DATA AREA
⑧ DISTRIBUTION PACKAGE
ENCRYPTED CONTENT
②
PACKAGING UNIT
MEMORY CARD WRITING UNIT
41
⑦ RSA ENCRYPTION UNIT
COMMUNI-CATION UNIT
30
CONTENT INDEX ③
(TITLE ARTIST)
④ DISTRIBUTION GUIDE INFO. FOR DISTRIBUTION SERVER
⑤ DOWNLOAD REQUEST
⑥ RSA ENCRYPTION UNIT
112
REFERENCE SERVER
DISTRIBUTION SERVER
101~108

FIG. 22


DISTRIBUTION GUIDE INFO. DISTRIBUTION PACKAGE
SEARCH REQUEST, DOWNLOAD REQUEST
PLAYBACK SOFTWARE
COMMUNI-CATION UNIT
30
BROWSER
35
RSA ENCRYPTED SECTION
PAYMENT PROCESSING UNIT
36
DISTRIBUTION PACKAGE
DISTRIBUTION GUIDE INFO.
DISTRIBUTION PACKAGE
PLAYBACK SOFTWARE INSTALLER
43
PLAYBACK SOFTWARE INFO. HOLDING UNIT
44
PACKAGE STORAGE AREA
32
PROTECTED AREA
34
USER DATA STORAGE AREA
33
31
USER OPERATION
MENU SCREEN
PURCHASE FEE
DES KEY
ENCRYPTED CONTENT
DES KEY
ENCRYPTED CONTENT
PLAYBACK UNIT
37

"Express Mail" Label No. EL 694706860

FIG. 23

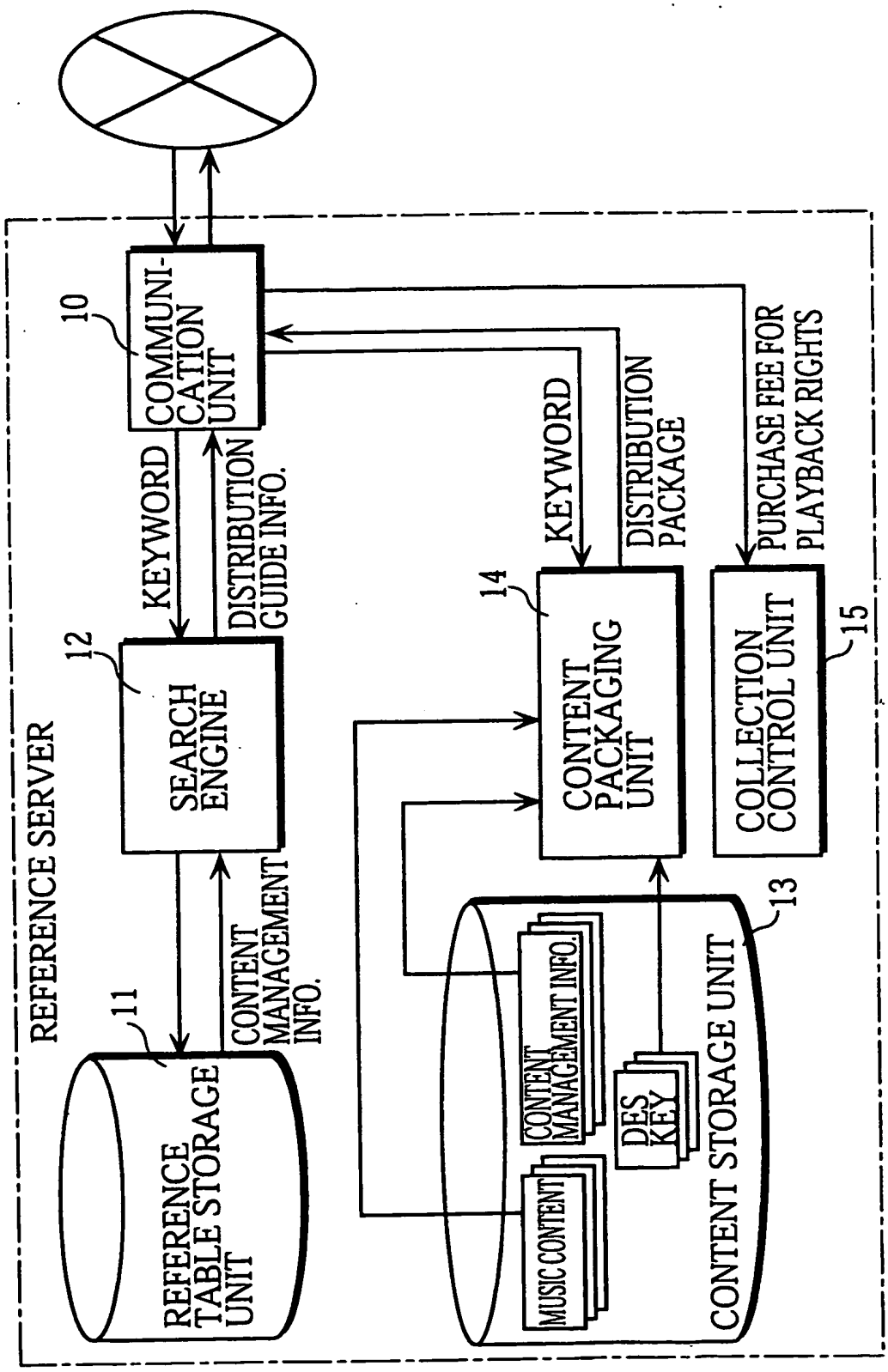
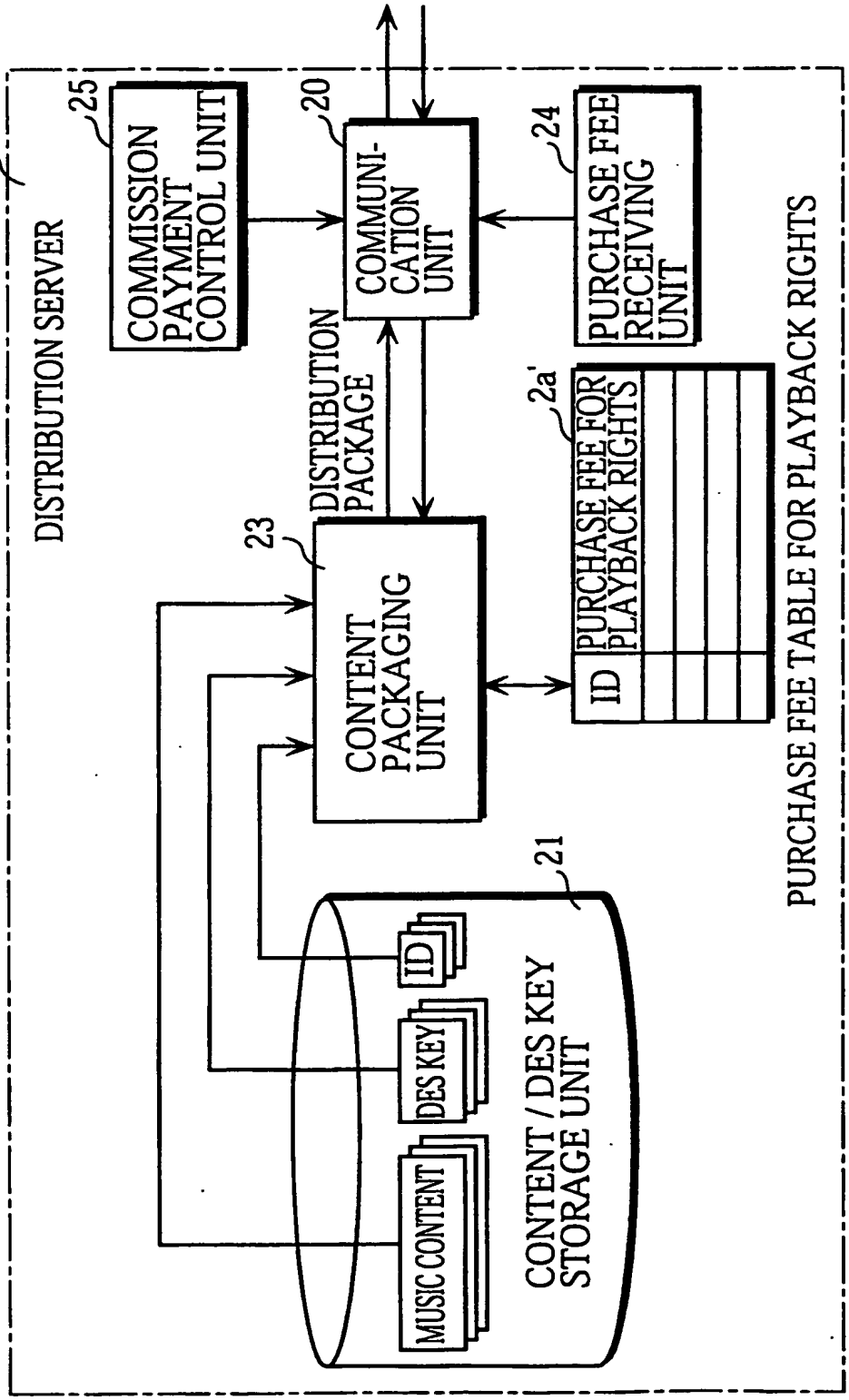


FIG. 24


101~108
DISTRIBUTION SERVER
25
COMMISSION PAYMENT CONTROL UNIT
20
COMMUNI-CATION UNIT
24
PURCHASE FEE RECEIVING UNIT
DISTRIBUTION PACKAGE
2a'
PURCHASE FEE FOR PLAYBACK RIGHTS
ID
23
CONTENT PACKAGING UNIT
21
ID
DES KEY
MUSIC CONTENT
CONTENT / DES KEY STORAGE UNIT
PURCHASE FEE TABLE FOR PLAYBACK RIGHTS